

**Math 154 – Calculus II**  
**Class Calendar Winter 2020**  
**Class Time: TR 8:30 a.m. – 10:48 a.m.**

**Instructor:** Mona Baarson  
**Office:** JM 246

**Phone:** (517)796–8579  
**E-mail:** [baarsonmonag@jccmi.edu](mailto:baarsonmonag@jccmi.edu)

**Text:** Calculus: Early Transcendental Functions, 3<sup>rd</sup> Edition

**Author:** Briggs, Cochran, Gillett

**Publisher:** Pearson

**ISBN:** 13: 978-0-13-476364-4 (Student Copy) or 10: 0-13-476364-5 (Student Copy) or MyMathLab

**Graphing Calculator Required:** TI-84 Plus, TI-89 or TI-N-Spire CAS

	Day	Sections	Topic
T	14-Jan	4.9 5.5 5.5	Course Introduction Antiderivatives and Indefinite Integration(review) Integration by Substitution (review) Inverse Trigonometric Functions : Integration (review)
R	16-Jan	6.2	Regions Between Curves
T	21-Jan	6.3 6.4	Volume by Slicing – Disk and Washer Method Volume by Shells
R	23-Jan	6.4 6.5	Volume by Shells Length of Curves
T	28-Jan	6.6 <b>Review</b> <b>Exam</b>	Surface Area <b>Exam #1 Review of Chapter 4.9,5.5,6.2-6.6</b> <b>Exam #1 – Chapter 4.9,5.5,6.2-6.6 (Will be taken in Testing Lab..BW 121)</b>
R	30-Jan	6.1	Velocity and Net Change
T	4-Feb	6.7	Physical Applications – Density and Mass/ Work/ Force and Pressure
R	6-Feb	6.7 7.1	Physical Applications – Density and Mass/ Work/ Force and Pressure Logarithmic and Exponential Functions Revisited
T	11-Feb	7.2 7.3 <b>Review</b> <b>Exam</b>	Exponential Models Hyperbolic Functions <b>Exam #2 Review of Chapter 6.1,6.7-7.3</b> <b>Exam #2 – Chapter 6.1,6.7-7.3 (Will be taken in Testing Lab..BW 121)</b>
R	13-Feb	8.1 8.2	Integration Techniques – Basic Approaches Integration by Parts
T	18-Feb	8.3 8.4	Trigonometric Integrals Trigonometric Substitutions
R	20-Feb	8.4 8.5	Trigonometric Substitutions Partial Fractions

Please note that revisions to the Class Calendar may be necessary during the course because of unforeseen circumstances (school closings, instructor illness, etc.). It is important to attend class regularly to be sure you are up to date on these revisions.

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T	25-Feb	8.5 8.6 8.7 <b>Review</b> <b>Exam</b>	Partial Fractions Integration Strategies Other Methods of Integration (Tables) <b>Exam #3 Review of Chapter 8.1-8.7</b> <b>Exam #3 – Chapter 8.1-8.7 (Will be taken in Testing Lab... BW 121)</b>
R	27-Feb	4.7 8.9	L'Hopital's Rule Improper Integrals
T	3-Mar	9.1 9.2 9.3	Basic Ideas: Introduction to Differential Equations Direction Fields Separable Differential Equations
R	5-Mar	9.4 9.5	Special First-Order Linear Differential Equations Modeling with Differential Equations
<b>M</b>	<b>9-Mar</b>		<b>Mid-Semester Break – No Classes</b>
<b>to</b>	<b>---</b>		<b>Mid-Semester Break – No Classes</b>
<b>Su</b>	<b>15-Mar</b>		<b>Mid-Semester Break – No Classes</b>
T	17-Mar	<b>Review</b> <b>Exam</b>	<b>Exam #4 Review of Chapter 4.7,8.9,9.1-9.5</b> <b>Exam #4 – Chapter 4.7,8.9,9.1-9.5 (Will be taken in Testing Lab... BW 121)</b>
R	19-Mar	10.1 10.2	An Overview – Sequences and Infinite Series Sequences
T	24-Mar	10.3	Infinite Series
R	26-Mar	10.4 10.5 10.6	The Divergence and Integral Tests Comparison Tests Alternating Series
T	31-Mar	10.7 10.8	The Ratio and Root Tests Choosing a Convergence Test
R	2-Apr	11.1 11.2	Approximating Functions with Polynomials Properties of Power Series

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	<b>Day</b>	<b>Sections</b>	<b>Topic</b>
T	7-Apr	11.2 11.3 <i>Review</i> <i>Exam</i>	Properties of Power Series Taylor Series <i>Exam #5 Review of Chapter 10 and 11</i> <i>Exam #5–Chapters 10 and 11 (Will be a take home exam)</i>
R	9-Apr	12.4 Part I 12.1	Conic Sections Parametric Equations
T	14-Apr	12.1 12.2	Parametric Equations Polar Coordinates
R	16-Apr	12.2 12.3	Polar Coordinates Calculus in Polar Coordinates
T	21-Apr	12.3 12.4 Part II <i>Review</i>	Calculus in Polar Coordinates Polar Equations and Conics <i>Exam #6 Review of Chapter 12</i>
R	23-Apr	<i>Review</i> <i>Exam</i>	<i>Exam #6 Review of Chapter 12</i> <i>Exam #6–Chapter 12 (Will be taken in class)</i>
T	28-Apr	<i>Review</i>	<i>Comprehensive Final Exam Review</i>
R	30-Apr	<i>Exam</i>	<i>Final Exam</i>

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